

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 11-067130

(43)Date of publication of application : 09.03.1999 ✓

(51)Int.Cl.

H01J 37/153

H01J 37/145

H01J 37/22

(21)Application number : 09-236505

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(22)Date of filing : 18.08.1997

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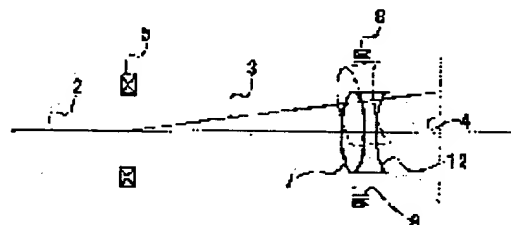
KOIKE HIROTAMI

(54) ELECTRON BEAM OPTICAL DEVICE

(57)Abstract:

PROBLEM TO BE SOLVED: To correct oblique aberration, to improve the resolution of an electron beam optical device, and to prevent a sample from being damaged.

SOLUTION: A scanning electron microscope to which the subject device can be applied is composed to have an electrostatic magnetic field composite object lens (a deceleration field). In this case, at least one deflection system 5 is installed, a corrected deflection magnetic field and a corrected deflection electric field are overlapped in the vicinity of an object lens 7, corresponding to a deflection orbit 3 of an electron beam deflected by the deflection system 5, and the corrected deflection magnetic field and the corrected deflection electric field correct oblique aberration to realize high resolution. Moreover, the deceleration field is formed, so that a high accelerating voltage is used and furthermore a sample damage is repressed.



LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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